



# ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18  
Stylesheet Version v18.0

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NOV 17 2003  
TC-1700

Title of  
Invention

MICROMACHINED STRUCTURES MADE BY COMBINED  
WET AND DRY ETCHING

Application Number: 10/076858  
Confirmation Number: 8738  
First Named Applicant: Dan Steinberg  
Attorney Docket Number: Shipley 03-19  
Art Unit: 1775  
Examiner: Stephen J. Stein  
Search string: ( 4225213 or 4253735 or 4362367 or 4411057  
or 4812002 or 4830450 or 5024500 or 5095386  
or 5135590 or 5281301 or 5357593 or 5381231  
or 5844723 or 5896481 or 5911021 or 6023546  
or 6088168 or 20030067049 ).pn.



## US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
533	1	4225213	1980-09-30	McBride, Jr. et al.			
533	2	4253735	1981-03-03	Kawamura et al.			
533	3	4362367	1982-12-07	Hammer et al.			
533	4	4411057	1983-10-25	Duda et al.			
533	5	4812002	1989-03-14	Kato et al.			
533	6	4830450	1989-05-16	Connell et al.			
533	7	5024500	1991-06-18	Stanley et al.			
533	8	5095386	1992-03-10	Scheibengraber			
533	9	5135590	1992-08-04	Basavanhally et al.			
533	10	5281301	1994-01-25	Basavanhally			
533	11	5357593	1994-10-18	Bossler			
533	12	5381231	1995-01-10	Tu			
533	13	5844723	1998-12-01	Snyder			
533	14	5896481	1999-04-20	Beranek et al.			
533	15	5911021	1999-06-08	MacDonald et al.			

SD	16	6023546	2000-02-08	Tachigori
SD	17	6088168	2000-07-11	Snyder

## US Published Applications

Note: Applicant is not required to submit a paper copy of cited US Published Applications

init	Cite.No.	Pub. No.	Date	Applicant	Kind	Class	Subclass
SD	1	20030067049	2003-04-10	Steinberg et al.			

## Remarks

Note: Remarks are not for responding to an office action.

In the event a fee is required the Commissioner is authorized to charge any underpayment or credit any overpayment to the account of the undersigned attorneys, Account No. 04-1406.

## Signature

Examiner Name	Date
<i>Steph Stein</i>	<i>5/1/04</i>



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Search string: ( 4021097 or 4181400 or 4601541 or 4683560  
or 5339377 or 5440657 or 5781675 or 5966493  
or 6212320 or 6511235 or 6548371 or  
6553173 ).pn.



### US Patent Documents

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init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
535	1	4021097	1977-05-03	McMahon			
535	2	4181400	1980-01-01	Malsot et al.			
535	3	4601541	1986-07-22	Shaw et al.			
535	4	4683560	1987-07-28	Takeuchi et al.			
535	5	5339377	1994-08-16	Takahashi			
535	6	5440657	1995-08-08	Essert			
535	7	5781675	1998-07-14	Tseng et al.			
535	8	5966493	1999-10-12	Wagoner et al.			
535	9	6212320	2001-04-03	Rickman et al.			
535	10	6511235	2003-01-28	Wu et al.			
535	11	6548371	2003-04-15	Fujimaki			
535	12	6553173	2003-04-22	Goto			

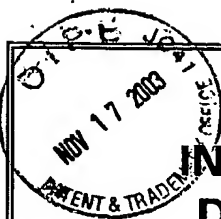
### Remarks

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Signature

Examiner Name	Date
<i>Allyson Stein</i>	5/1/04



# INFORMATION DISCLOSURE STATEMENT

SHEET 1 OF 1

Complete if known

Application Number: 10076858

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Filing Date: February 14, 2002

NOV 24 2003

First Named Inventor: Steinberg

TC 1700

Group Art Unit: 1775

Examiner Name: Stephen J. Stein

Attorney Docket Number: Shipley 03-19; DN: 51969 (Act - 183/184)

## UNITED STATES PATENT DOCUMENTS

EXAMINER'S INITIALS	CITE NO.	PATENT NUMBER	ISSUE DATE MM-DD-YYYY	FIRST NAMED INVENTOR

## FOREIGN PATENT DOCUMENTS

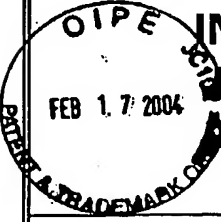
EXAMINER'S INITIALS	CITE NO.	DOCUMENT NUMBER	COUNTRY OR REGION	DATE OF PUBLICATION MM-DD-YYYY	FIRST NAMED INVENTOR OR APPLICANT

## OTHER PRIOR ART - NON-PATENT DOCUMENTS

EXAMINER'S INITIALS	CITE NO.	Include name of the author (in Capital Letters), title of the article (when appropriate), title of the item(book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published
SSS		J. G. Fleming, "Combining the best of bulk and surface micromachining using Si {111} substrates." SPIE Vol. 3511, September 1998, pp. 162-168.
SSS		J. Brugger, et al., "Self-aligned 3D shadow mask technique for patterning deeply recessed surfaces of micro-electro-mechanical systems devices." Sensors and Actuators 76 (1999) pp. 329-334.

EXAMINER'S SIGNATURE		DATE CONSIDERED	5/1/04
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**EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP §609. Draw a line through citation if citation not in conformance and reference not considered. Include a copy of this form with next communication to applicant.

 <b>INFORMATION DISCLOSURE STATEMENT</b>	<i>Complete if known</i>	
	Application Number: 10/076,858	
	Filing Date: February 14, 2002	
	First Named Inventor: Steinberg	
	Group Art Unit: 1775	
	Examiner Name: Stephen J. Stein	
SHEET 1 OF 1		Attorney Docket Number: Shipley 03-19

UNITED STATES PATENT DOCUMENTS				
EXAMINER'S INITIALS	CITE NO.	PATENT NUMBER	ISSUE DATE MM-DD-YYYY	FIRST NAMED INVENTOR
SSS		4706061	11/10/1987	Johnson
SSS		4784721	11/15/1988	Holmen et al.
SSS		4837129	06/06/1989	Frisch et al.
SSS		4945400	07/31/1990	Blonder et al.
SSS		5384872	01/24/1995	Jacobs-Cook et al.
SSS		5760305	06/02/1998	Greiff

FOREIGN PATENT DOCUMENTS					
EXAMINER'S INITIALS	CITE NO.	DOCUMENT NUMBER	COUNTRY OR REGION	DATE OF PUBLICATION MM-DD-YYYY	FIRST NAMED INVENTOR OR APPLICANT
SSS		WO 03/008139	WO	01/30/2003	Steinberg et al.

OTHER PRIOR ART - NON-PATENT DOCUMENTS		
EXAMINER'S INITIALS	CITE NO.	Include name of the author (in Capital Letters), title of the article (when appropriate), title of the item(book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published
SSS		Marc Madou, "Fundamentals of Microfabrication", CRC Press, pp. 174-178, 1997. (no number)

EXAMINER'S SIGNATURE		DATE CONSIDERED	5/1/2004
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